FOOTWEAR WITH BREATHABLE SOLE

Abstract of the Disclosure

Footwear having a ventilated sole system to cool the foot is provided. The footwear includes a generally horizontal sole having an outer sole and an insole providing a surface adjacent the foot. The footwear also includes an air flow pump positioned between the outer sole and the insole. The air flow pump includes a generally horizontal tubular pump element extending generally transverse of the footwear from a medial side of the sole to a lateral side of the sole. The pump element defines an interior volume and has opposite ends open to ambient air. The pump element also has a plurality of holes therein providing fluid communication between the interior volume and the surface adjacent the foot. The pump element is resiliently compressible in a generally vertical direction upon impact of the footwear during walking or running and expansible upon liftoff causing ambient air to flow through the holes in the pump elements to cool the foot.